	Application No.	Applicant(s)
	10/051.544	HUMMLER, KLAUS
Notice of Allowability	Examiner	Art Unit
	Johannes P Mondt	2826
The MAILING DATE of this communication appropriate in the second of the	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject and MPEP 1308.	plication. If not included n will be mailed in due course. THIS to withdrewal from issue at the initiative
 This communication is responsive to 10/16/2003. 	nathan	J. FLYNM
 The allowed claim(s) is/are 14-16.18 and 19. 	SUPERVISORY P	ATENT EXAMINER
3. The drawings filed on are accepted by the Examine	TECHNOLOGY	CENTER 28%0
Acknowledgment is made of a claim for foreign priority unc		
a) All b) Some* c) None of the:		
 Certified copies of the priority documents have 	been received.	
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International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Acknowledgment is made of a claim for domestic priority u	nder 35 U.S.C. § 119(e) (to a provis	ional application).
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Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of		
 A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which gives reas 	nited. Note the attached EXAMINE son(s) why the oath or declaration is	R'S AMENDMENT or NOTICE OF deficient.
8. CORRECTED DRAWINGS must be submitted.		
(a) ⊠ including changes required by the Notice of Draftsper	rson's Patent Drawing Review (PTC	2-948) attached
1) ⊠ hereto or 2) ☐ to Paper No		•
(b) I including changes required by the proposed drawing	correction filed which has t	seen approved by the Examiner.
(c) ☐ including changes required by the attached Examiner		
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Identifying Indicie such as the application number (see 37 CFR 1 each sheet.	I.84(c)) should be written on the draw	ings in the front (not the back) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T 	Isit of BIOLOGICAL MATERIAL THE DEPOSIT OF BIOLOGICAL M	must be submitted. Note the ATERIAL.
Attachment(s)		
1 ☐ Notice of References Cited (PTC-892) 3[3] Notice of Draftperson's Patent Drawing Review (PTC-948) 5[3] Information Disclosure Statements (PTC-1449), Paper No 7[4☐ Interview Summ 6⊠ Examiner's Am	nal Patent Application (PTO-152) nary (PTO-413), Paper No endment/Comment tement of Reasons for Allowance

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DETAILED ACTION

Response to Amendment

Proposed Amendment After Final Rejection submitted under 37 C.F.R. 1.116 filed 12/19/2003 places the application in condition for allowance, considering the cancellation of non-elected claims 1-13.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes
and/or additions be unacceptable to applicant, an amendment may be filed as provided
by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be
submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attornev Nathaniel Wallace (48,909) on December 23, 2003.

The application has been amended as follows:

BEGIN EXAMINER'S AMENDMENT

Claim 15: The wording "The system of claim 14" (line 1) has been replaced by: "The memory device of claim 14".

Claim 16: The wording "The system of claim 14" (line 1) has been replaced by: "The memory device of claim 14".

Claim 18: The wording "The system of claim 14" (line 1) has been replaced by: "The memory device of claim 14".

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Claim 19: The wording "The system of claim 18" (line 1) has been replaced by: "The memory device of claim 18".

END OF EXAMINER'S AMENDMENT

Allowable Subject Matter

Claims 14-16 and 18-19 are allowed. The following is an examiner's statement
of reasons for allowance:

Pogge et al (6,599,778 B2), previously made of record and cited, teach (cf. Figures 3G and 4E):

a dimple 38 (cf. col. 5, lines 11-20) ground into a back side 1b (cf. Figure 4C and col. 5, line 1 and col. 5, lines 11-15) of a semiconductor substrate 1 (cf. col. 4, line 67);

a trench 39 (cf. col. 5, lines 11-20) extending from the bottom portion of the dimple exposing a portion 22 (cf. col. 5, lines 11-20; cf. Figures 3B, 3G and 4E) of a vertical trench fill 24/26 (cf. Figures 2E and 2F and col. 4, lines 5-41); and

a conductive material 22 (cf. col. 5, lines 11-20) connecting the vertical trench fill and a buried plate 23 (cf. col. 4, lines 5-18). The further limitation that the said trench be "milled" is immaterial to the present device claim 14.

However, the conductive material 22 as taught by Pogge et al does not cover a portion of the backside 1b of the semiconductor substrate 1 unlike in Figure 3b of Applicant's disclosure.

An update has not revealed prior art over which the independent claim must be rejected. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Johannes P Mondt whose telephone number is: 703-306-0531 BEFORE February 4, 2004; and 571-272-1919 AFTER February 4, 2004. The examiner can normally be reached on 8:00 - 18:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J Flynn can be reached on 703-308-6601 BEFORE February 4, 2004, and on 571-272-1915 AFTER February 4, 2004. The fax phone number for the organization where this application or proceeding is assigned is 703-308-5399.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

JPM December 19, 2003